



State of Ohio Environmental Protection Agency

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P.O. Box 1
Columbus, OH 43216-1

September 25, 1996

CERTIFIED MAIL

Permit to Operate Application No. 0247080396B004
Lorain County

Maria Gardens Farms, Inc
Jim Pertz
20465 Royalton Road
Strongsville, Ohio 44136

Enclosed are Permit(s) to Operate which allow you to operate the described air contaminant source(s) in the manner indicated in the permit(s). Because these permits contain several conditions and restrictions, I urge you to read them carefully.

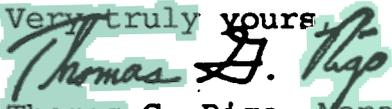
The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Board of Review pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed with the Environmental Board of Review within thirty (30) days after notice of the Director's action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the board. An appeal may be filed with the Environmental Board of Review at the following address:

Environmental Board of Review
236 East Town Street
Room 300
Columbus, Ohio 43215

If you have any questions, please contact the air pollution control agency to which you submitted your application.

Very truly yours,


Thomas G. Rigo, Manager

Field Operations and Permit Section
Division of Air Pollution Control

USEPA
NORTHEAST DISTRICT OFFICE/DAPC

George V. Voinovich, Governor
Nancy P. Hollister, Lt. Governor
Donald R. Schregardus, Director



ERMIT TO OPERATE AN AIR CONTAMINANT SOURCE

Date of Issuance **September 25, 1996**

Application No. **0247080396B004**

Effective Date **September 25, 1996**

Permit Fee **\$000**

This document constitutes issuance to:

**MARIA GARDENS FARMS, INC.
4900 DETROIT RD
ELYRIA, OHIO 44035**

of a permit to operate for:

**ERIE CITY UNDERFEED STOKER (7.82 MMBTU/HR)
BOILER NO. 2 - COAL FIRED**

The following terms and conditions are hereby expressly incorporated into this permit to operate:

1. This permit to operate shall be effective until **09/25/99**
You will be contacted approximately six months prior to this date regarding the renewal of this permit. If you are not contacted, please write to the appropriate Ohio EPA field office.
2. The above-described source is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.
3. Prior to any modification of this source, as defined in rule 3745-31-01 of the Ohio Administrative Code (OAC), a permit to install must be granted by the Ohio EPA pursuant to OAC Chapter 3745-31.
4. The Director of the Ohio EPA or an authorized representative may, subject to the safety requirements of the permit holder, enter upon the premises of this source at any time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State and federal air pollution laws and regulations and the terms and conditions of this permit.
5. A permit fee in the amount specified above must be remitted within 15 days from the issuance date of this permit.
6. Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA field office must be notified in writing of any transfer of this permit.
7. This source and any associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices in order to minimize air contaminant emissions. Any malfunction of this source or any associated air pollution control system(s) shall be reported immediately to the appropriate Ohio EPA field office in accordance with OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of this source.
8. Any unauthorized or emergency release of an air contaminant from this source which, due to the toxic or hazardous nature of the material, may pose a threat to public health, or otherwise endanger the safety or welfare of the public, shall be reported immediately to the appropriate Ohio EPA field office (during normal business hours) or to the Ohio EPA's Emergency Response Group (1-800-282-9378). (Additional reporting may be required pursuant to the federal Comprehensive Environmental Response, Compensation, and Liability Act.)
9. The appropriate Ohio EPA field office is:
**NORTHEAST DISTRICT OFFICE/DAPC
2110 EAST AURORA ROAD
TWINSBURG, OHIO 44087 (216) 425-9171**
10. If this term and condition is checked, the permit holder is subject to the attached special terms and conditions.

OHIO ENVIRONMENTAL PROTECTION AGENCY

Director



The following terms and conditions will be included in each non-Title V permit under the General Conditions section.

1. Compliance Requirements

The above-described emissions unit is and shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

3. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

4. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of three years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained in computerized form.

5. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State and federal air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

6. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions unit or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of this emissions unit(s) that is (are) served by such control system(s).

7. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permittee. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

8. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

9. Permit Renewal

Approximately six months prior to the expiration date of this permit, a notice regarding the renewal of this permit will be sent to the permittee's designated facility contact. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency. It is the permittee's responsibility to renew this permit even if no notice of its expiration is received.

The following Ohio EPA District Office or local air agency has jurisdiction in the area in which the facility is located:

10. The permittee also is subject to the attached special terms and conditions.

APPLICATION NUMBER: 02-47-08-0396 B004
FACILITY NAME: MARIA GARDENS GREENHOUSES
EQUIPMENT DESCRIPTION: ERIE CITY UNDERFEED STOKER
(7.82 MMBTU/HOUR)
COMPANY ID: BOILER NO. 2 - COAL FIRED

SPECIAL TERMS AND CONDITIONS

A) APPLICABLE STATE REGULATIONS:

The following rules of the Ohio Administrative Code (OAC) establish the applicable emission limitations and/or control requirements of this source:

OAC Rule 3745-17-07(A)
OAC Rule 3745-17-10(C)
OAC Rule 3745-18-04
OAC Rule 3745-15-06
OAC Rule 3745-35-07

(This condition in no way limits the applicability of other requirements of the Ohio Administrative Code to this source.)

B) ALLOWABLE EMISSIONS LIMITS:

1. Per OAC Rule 3745-17-10(C) (1), Figure I, the particulate emissions from this emissions unit shall not exceed 0.40 pound per million Btu (mmBtu) of heat input. Annual particulate emissions shall not exceed 3.13 pounds per hour or 13.70 tons per year.
2. Sulfur dioxide (SO₂) emissions from this facility shall not exceed 99.50 tons per year. SO₂ emissions from this single coal-fired emissions unit (B004) shall not exceed 4.36 pounds per million Btu of heat input or 99.44 tons per year. (See "Federally Enforceable Emission Requirements for Sulfur Dioxide" below.)

C) GENERAL SOURCE OPERATING RESTRICTIONS:

1. The maximum heat input to this source shall not exceed 7.82 mmBtu per hour, the maximum rated capacity of this boiler.
2. The steam injection system shall be used at all times during operation of this source.
3. The use of flyash reinjection in this source is prohibited.
4. This source shall employ an overfire air system which is designed, maintained, and operated in accordance with good engineering practices and which minimizes visible emissions.

D) PARTICULATE/VISIBLE EMISSION RESTRICTIONS:

This source shall comply with OAC Rule 3745-17-07(A), which limits visible particulate emissions as follows:

1. Except as provided below, visible particulate emissions from the stack shall not exceed an opacity of twenty (20) percent as a six-minute average.
2. Visible particulate emissions from the stack may exceed twenty (20) percent as a six-minute average for not more than six (6) consecutive minutes in any sixty-minute period, but shall not exceed sixty (60) percent opacity at any time.

The visible particulate emission limitations specified above shall not apply to the following operations, provided the operations are documented in a boiler operations log kept at the facility:

- a) The start-up of the source for a period of time required to achieve stable combustion conditions, but no more than three (3) hours from the moment of start-up. "Start-up" means the commencement of firing of fuel from a cold non-fired condition.
- b) The shutdown of the source for a period of not more than three (3) hours.

- c) The malfunction of the source or associated equipment, if the owner of the source or operator of the equipment complies with the requirements of OAC Rule 3745-15-06.
- d) Intermittent soot-blowing operations (the cleaning of heat transfer surfaces with pressurized air or steam).
- e) Intermittent ash removal operations (the dumping or pulling of ash).
- f) The commencement of increased coal firing from a banked condition for a period not to exceed thirty (30) minutes. "Banked condition" means the condition where the fuel is burned on the grates at rates which are sufficient to maintain ignition only.

This boiler operations log shall clearly document the date, beginning time, and ending time of the exempted operations listed above.

E) FEDERALLY ENFORCEABLE EMISSION REQUIREMENTS FOR SULFUR DIOXIDE:

The total annual emissions of SO₂ from all sources at this facility shall be limited to 99.50 tons. Since three minor sources at this facility (three gas fired boilers, sources B001, B002, and B003 with maximum heat input rates of 8.0, 5.5 and 10.5 million Btu per hour, respectively) have combined maximum annual potential SO₂ emissions of 0.06 tons per year, the annual allowable emissions from this coal fired source (B004) shall not exceed 99.44 tons. This annual SO₂ emission limitation shall be achieved by restricting both the sulfur content in the coal supply and the maximum number of operating hours of this source in the following manner:

1. The quality of coal burned in this source shall meet the following specifications on a dry basis:
 - a) a sulfur content which is sufficient to comply with an allowable SO₂ emission limitation of 4.36 pounds of SO₂ per mmBtu actual heat input;
 - b) less than 8.0 percent ash; and

c) greater than 13,000 Btu per pound of coal

Compliance with the above-mentioned specifications for sulfur, ash, and heat content shall be determined by using the analytical results provided by the coal supplier for each shipment of coal. The analytical methods for sulfur content, ash content, and heat content in coal shall be: ASTM Method D3177, Total Sulfur in the Analysis Sample of Coal and Coke or ASTM Method D4239, Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods; ASTM Method D3174, Ash in the Analysis Sample of Coal and Coke; ASTM Method D2015, Gross Calorific Value of Solid Fuel by the Adiabatic Bomb Calorimeter, ASTM Method D3286, Gross Calorific Value of Coal and Coke by the Isothermal Bomb Calorimeter, or ASTM Method D1989, Standard Test Method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Iso-peribol Calorimeter, respectively.

2. The maximum number of hours this source may operate during any rolling 365-day period is 5832 hours.
3. During the first twelve (12) months of operation under this permit, this source shall not exceed the total number of hours of operation specified for each month in the following table:

<u>CALENDAR MONTH(S)</u> <u>(AFTER PERMIT</u> <u>ISSUANCE)</u>	<u>CUMULATIVE</u> <u>ALLOWABLE</u> <u>TOTAL HOURS</u>
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1	720
2	1464
3	2184
4	2928
5	3672
6	4368
7	5112
8	5832
9	5832
10	5832
11	5832
12	5832

F) RECORDKEEPING REQUIREMENTS:

This facility shall maintain the following records for this source, in addition to those records referred to in paragraph (D) above:

1. Daily records of the total hours of operation, including the hours in a banked condition, and the cumulative total of the hours of operation on a rolling 365-day basis. These records shall be signed daily by the owner/operator, attesting to the accuracy of the data.
2. For each shipment of coal, the quantity of coal received and the results of the coal supplier's analyses on both an as-received and dry basis. Data recorded shall include:
 - a) the total quantity of coal received (tons),
 - b) the sulfur content (percent) of the coal,
 - c) the ash content (percent) of the coal
 - d) the heat content (Btu per pound) of the coal, and
 - e) the SO₂ emission rate (pounds SO₂ per mmBtu actual heat input) for the coal.

Compliance with the applicable SO₂ emission limit, as well as the ash and Btu limitations, shall be determined based on the weighted arithmetic average of all fuel analyses for each calendar month.

[NOTE: A weighted average fuel quality value is determined by multiplying each fuel analysis value (Btu/pound, percent ash, or SO₂ emission rate) by the weight of the shipment of fuel for which the quality value is representative, adding up all the value-weighted products, and dividing the sum of the value-weighted products by the sum of all the shipment weights.]

3. Monthly calculations of the weighted average SO₂ emission rate, ash content, and heat content for the coal received each calendar month.

These records, as well as any other supporting analyses, computations, operations logs, and fuel receipts, shall be retained on site in facility files for a period of not less than five (5) years and shall be made available to the Director or any authorized representative of the Director for review during normal business hours.

G. REPORTING REQUIREMENTS:

- 1) The owner/operator of this emissions unit shall notify the Ohio EPA immediately if any of the restrictions in the "Federally Enforceable Requirements for Sulfur Dioxide" are exceeded.
- 2) This facility shall submit semi-annual reports to the Ohio EPA, Northeast District Office, which provide the following information for this source:
 - a) The total quantity of coal received during each calendar month;
 - b) The weighted average ash content (percent) of the coal received during each calendar month;
 - c) The weighted average heat content (Btu per pound) of the coal received during each calendar month;
 - d) The weighted average SO₂ emission rate (pounds SO₂ per mmBtu actual heat input) for the coal received during each calendar month;
 - e) The number of hours of boiler operation for each day during the reporting period and during each calendar month;
 - f) The rolling 365-day cumulative total of the hours of operation for each day during the reporting period (after the first 12 months of operation under this permit); and

g) A copy of the coal supplier's analyses for each coal shipment received during the reporting period.

All fuel analyses data shall be reported on both an as received and a dry basis.

These reports shall be submitted by February 15 and August 15 of each year and shall cover operations for the previous six calendar months (July through December and January through June).

All reports required by these terms and conditions shall be sent to:

Ohio Environmental Protection Agency
Northeast District Office
2110 East Aurora Road
Twinsburg, Ohio 44087
Phone: (216) 963-1200

An Ohio EPA form, entitled "Auxiliary Boiler Operations Log", or an approved equivalent, shall be used to record the daily boiler operating hours and rolling 365-day cumulative total operating hours as required to demonstrate compliance with this permit.

H) FEDERAL ENFORCEABILITY:

Sections B(2), E, F, and G of these Special Terms and Conditions constitute the federally enforceable portions of this Permit to Operate.

Prepared by: F. T. Mueller

Date Prepared: March 18, 1996

AUXILIARY BOILER OPERATIONS LOG
(Data Required for Synthetic Minor Operating Permit)

SOURCE NAME: _____

MONTH: _____

YEAR: _____

DAY	BOILER OPERATION HOURS			ROLLING 365-DAY CUMULATIVE TOTAL:
	HOURS FIRED	HOURS BANKED	TOTAL OPERATING HOURS.	HOURS OPERATION
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
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21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
TOTAL				

OWNER/OPERATOR SIGNATURE: _____

DATE: _____